

**REMARKS:**

**REMARKS THE CLAIMS:**

Please cancel claims 1-13 in favor of the new claims added for consideration hereinabove.

The subject matter of the new claims finds antecedent basis in the original specification as filed; care has been taken to avoid the introduction of new matter. More specifically, the subject matter of claim 14 finds basis in the specification in at least Paragraphs [0009] and [0027]. In this regard, Paragraph [0009] supports and explains the present recitation of utilizing ring guard(s) for dealing with interfering background current related to the mechanically damaged edge zone(s) of the employed silicon wafers. These characteristics and limitation are not disclosed in any reference of record; and especially not in *Nelson* '453 which has previously been utilized as the primary reference upon which rejection has been based. In *Nelson*, there is no disclosure, teaching or even suggestion of mechanically damaged edge zone(s), much less use of one or more guard rings for dealing with the background current issues thereby presented. The recited correlation between the collimator and active x-ray detection area are supported in Paragraph [0027].

Antecedent basis for the balance of the new claims is found predominantly in Paragraphs [0026] through [0028].

Regarding claim 15, no reference of record discloses, teaches or suggests the institution of a dead area in a "silicon substrate based radiation detector comprising a silicon detector wafer," (see claim 14 and Paragraphs [0009] and [0024]) nor the utilization of an angle between the detector and the x-ray beam that is defined by the characteristic that such angled orientation prevents x-rays from impinging upon the dead area (see Paragraphs [0017] and [0027] for specific support).

Claims 17 through 20 further define discovered preferable characteristics of an x-ray imaging arrangement optimized for mammographic imagery.

The non-overlapping characteristic recited in claim 21 regarding the instant pixel sensor strips further defines the presently claimed invention over the *Iwanczyk* '635 reference that

Serial No.: 09/682,502  
Confirmation No.: 7905  
Applicant: DANIELSSON, Mats  
Atty. Ref.: 06730.0010.NPUS00

includes two overlapping electrodes (17 and 12), but which have been analogized by Examiner to Applicant's pixel sensor strips.

Claim 22 further defines specific characteristics of applicant's invention that further define over the references of record.

\*\*\*\*

The undersigned representative requests any extension of time that may be deemed necessary to further the prosecution of this application – small entity status still being claimed.

The undersigned representative authorizes the Commissioner to charge any additional fees under 37 C.F.R. 1.16 or 1.17 that may be required, or credit any overpayment, to Deposit Account No. 14-1437, referencing Order No. 6730.010.NPUS00.

In order to facilitate the resolution of any issues or questions presented by this paper, the Examiner should directly contact the undersigned by phone to further the discussion.

Respectfully submitted,



---

Tracy W. Druce  
Patent Attorney  
Reg. No. 35,493  
Tel. 202.293.7333